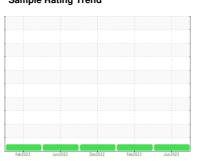


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 945020-260278

Component

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

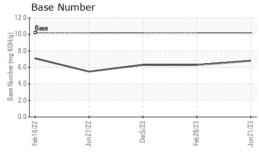
Fluid Condition

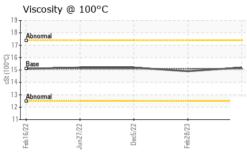
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Feb 2022	Jun2022	Dec2022 Feb2023	Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0084746	GFL0073667	GFL0058189
Sample Date		Client Info		21 Jun 2023	28 Feb 2023	05 Dec 2022
Machine Age	mls	Client Info		2693	30905	30344
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	6	4	7
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	0	<1
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>35	0	0	<1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	50	14	19	17
Barium	ppm	ASTM D5185m	5	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	52	48	54
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	560	652	504	552
Calcium	ppm	ASTM D5185m	1510	1622	1491	1666
Phosphorus	ppm	ASTM D5185m	780	805	694	760
Zinc	ppm	ASTM D5185m	870	1044	927	1015
Sulfur	ppm	ASTM D5185m	2040	3012	2264	2876
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+100	3	2	5
Sodium	ppm	ASTM D5185m		3	3	4
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.3	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	21.6	23.1
FLUID DEGRAD	NOITA	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	0.5		47.0	40.4
Oxidation	MUS/. 1111111	ASTIVI D/414	>25	18.4	17.6	19.4



OIL ANALYSIS REPORT

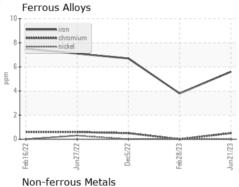


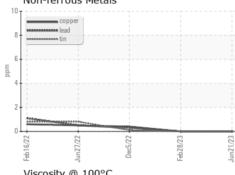


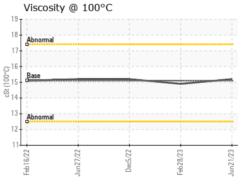
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

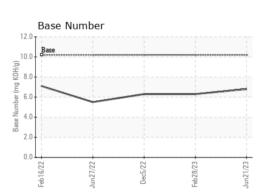
FLUID PROPE	RHES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.1	15.2	14.9	15.2

GRAPHS













Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number

: GFL0084746 : 05884945 : 10535428

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Jun 2023 Diagnosed : 30 Jun 2023

Diagnostician : Wes Davis

GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: KEITH ROWALD krowald@gflenv.com T: (303)641-3906

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL856 [WUSCAR] 05884945 (Generated: 06/30/2023 07:33:28) Rev: 1

Contact/Location: GFL856, 859, 864 - KEITH ROWALD - GFL856